

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	190	(diffus\$4 and oxygen and Iso)".clm"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:56
L2	1	(diffus\$4 and oxygen and Iso).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:56
L3	1	"10754238"	US-PGPUB	OR	ON	2006/08/21 07:57
L4	2	10/754238	US-PGPUB	OR	ON	2006/08/21 07:57
L5	334	(scintillat\$4 near crystal).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L6	111	(scintillat\$4 near crystal) same Iso	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L7	114	(scintillat\$4 near crystal) same (Iso or (lutetium near orthosilicate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L8	141	(scintillat\$4 with crystal) same (Iso or (lutetium near orthosilicate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L9	2	L8 and ((diffus\$4 with oxygen) same heat)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L10	4	(scintillat\$4 with crystal) and ((diffus\$4 with oxygen) same heat)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L11	5	(scintillat\$4 with crystal) and ((diffus\$4 with oxygen) same heat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L12	0	"501"/\$.ccls. and Iso	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L13	0	501/2.ccls. and Iso	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L14	102	501/2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L15	30810	"501"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L16	0	L15 and (carium with lutetium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L17	0	L15 and (cerium with lutetium with orthosilicate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L18	119	L15 and (cerium with lutetium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L19	3	L15 and (scintillat\$4 near crystal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L20	275	ceramic near scintillator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L21	11	L20 and Iso	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L22	0	L21 and ((diffus\$4 with oxygen) same heat)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L23	1	L20 and ((diffus\$4 with oxygen) same heat)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L24	1	"20020144640"	US-PGPUB	OR	ON	2006/08/21 07:57
L25	6	("20020144640" "4055391" "51640 41" "5324488" "5481114" "5483070 " "5540947").PN.	USPAT	OR	ON	2006/08/21 07:57
L26	38	(chai near bruce).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L27	5	L26 and Iso	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L28	3	Iso same oxygenate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L29	0	(scintillat\$4 near crystal) same oxygenate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L30	158	crystal same oxygenate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L31	2	L30 and (Iso or (lutetium near orthosilicate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L32	64	crystal with oxygenate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L33	9	scintillat\$4 and L32	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L34	17718	crystal with oxygen\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L35	66346	scintillat\$4 same109	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L36	66346	scintillat\$4 same10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L37	56	scintillat\$4 same L34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L38	9	L37 and (Iso or (lutetium near orthosilicate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L39	301	(diffus\$4 near oxygen) with crystal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L40	496	(diffus\$4 near oxygen) with (crystal or ceramic)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L41	696	(diffus\$4 near oxygen) with (crystal or ceramic or monocrystalline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L42	945	(oxygenat\$4 or (diffus\$4 near oxygen)) with (crystal or ceramic or monocrystalline)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L43	4	L42 and (Iso or (lutetium near orthosilicate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L44	101	L42 and (Iso or (lutetium near orthosilicate) or cerium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L45	9	L42 same (Iso or (lutetium near orthosilicate) or cerium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L46	117878	(manyfactur\$4 or grow\$4 or produc\$4) near2 crystal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L47	5533	L46 and czochralski	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L48	158	L47 and (Iso or (lutetium near orthosilicate) or cerium or lyso)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L49	90	L48 and (oxygen\$4 or oxidi\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L50	46	L49 and scintillat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L51	11	L50 and (light near yield)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L52	2936	crystal same crucible same gas	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L53	1579	crystal same crucible same oxygen	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L54	18	L53 same (Iso or (lutetium near \$3orthosilicate) or cerium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L55	76	crystal same crucible same ((diffus\$4 with oxygen) or oxygenat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L56	0	scintillat\$4 same L55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L57	2	scintillat\$4 and L55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L58	76	crystal same crucible same ((diffus\$4 with oxygen) or oxygenat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L59	73	L53 and (Iso or (lutetium near \$3orthosilicate) or cerium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L60	13	L59 and ((diffus\$4 with oxygen) or oxygenat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L61	11	L53 and (Iso or (lutetium near \$3orthosilicate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L62	2	L55 and (Iso or (lutetium near \$3orthosilicate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L63	0	cyrstal same (oxidized near3 state)	USPAT	OR	ON	2006/08/21 07:57
L64	0	cyrstal same "4+"	USPAT	OR	ON	2006/08/21 07:57
L65	0	cyrstal same "2+"	USPAT	OR	ON	2006/08/21 07:57
L66	0	cyrstal same "2 +"	USPAT	OR	ON	2006/08/21 07:57
L67	0	cyrstal same "1 +"	USPAT	OR	ON	2006/08/21 07:57
L68	131	crystal same "1 +"	USPAT	OR	ON	2006/08/21 07:57
L69	44	crystal same "4 +"	USPAT	OR	ON	2006/08/21 07:57
L70	1	cyrstal and (oxidized near state)	USPAT	OR	ON	2006/08/21 07:57
L71	56	((LIGHT NEAR YIELD) with (increas\$4 or improv\$4)) same crystal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L72	9	L71 and oxygen\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L73	17	L71 and scintillat\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L74	897	((LIGHT NEAR (emission or YIELD)) with (increas\$4 or improv\$4)) same crystal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L75	9	((((LIGHT NEAR (emission or YIELD)) with (increas\$4 or improv\$4)) same (scintillat\$5 or crystal)) same oxygen\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L76	193	((((LIGHT NEAR (emission or YIELD)) with (increas\$4 or improv\$4)) same (scintillat\$5 or crystal)) and oxygen\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L77	68	((flow or diffus\$4) near2 oxygen) same czochralski	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L78	0	((flow or diffus\$4) near2 oxygen) same czochralski and (scintillat\$4 with crystal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L79	0	((flow or diffus\$4) near2 oxygen) same czochralski and (scintillat\$4 with crystal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L80	3	((flow or diffus\$4) near2 oxygen) same (scintillat\$4 with crystal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L81	36	(Iso or (lutetium near2 \$3orthosilicate)) and crucible	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L82	6	L81 and (oxegen\$4 or oxidiz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L83	157	scintillat\$4 and ((crystal or monocrystalline) same czochralski)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L84	69	L83 and oxygen	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L85	74	L83 and (oxygen\$4 or oxidiz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L86	0	(scintillat\$4 near crystal) same (diffus\$4 near3 oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57



## EAST Search History

L87	0	(scintillat\$4 near crystal) same (diffus\$4 with oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L88	16	((scintillat\$4 near crystal) with oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L89	1	10/949403	US-PGPUB	OR	ON	2006/08/21 07:57
L90	106	((Iso) or (lutetium near orthosilicate)) with (cerium or ce)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L91	0	method with form\$4 with scintillat with crystals	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L92	113	method with form\$4 with scintillat\$5 with crystal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L93	8	(method with form\$4 with scintillat\$5) and "117"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L94	537	((diffus\$4 near3 oxygen) or oxygenate) with (scintillat\$5 or crystal)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L95	96	L94 and ("250"/\$.ccls. or "117"/\$. ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L96	0	(scintillat with crystals) same (oxygen near vacan\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57

## EAST Search History

L97	6	(scintillat\$4 with crystals) same (oxygen near vacan\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L98	2	("20020144640" "20040084655" "4 055391" "5164041" "5324488" "548 1114" "5483070" "5540947" "56606 27" "5690731" "6323489" "6462341 " "6624420" "6643538" "6671541" "6 8222237" "6903344" "6921901" "6 995374").PN.	US-PGPUB	OR	ON	2006/08/21 07:57
L99	17	("20020144640" "20040084655" "4 055391" "5164041" "5324488" "548 1114" "5483070" "5540947" "56606 27" "5690731" "6323489" "6462341 " "6624420" "6643538" "6671541" "6 8222237" "6903344" "6921901" "6 995374").PN.	USPAT	OR	ON	2006/08/21 07:57
L100	19	("20020144640" "20040084655" "4 055391" "5164041" "5324488" "548 1114" "5483070" "5540947" "56606 27" "5690731" "6323489" "6462341 " "6624420" "6643538" "6671541" "6 8222237" "6903344" "6921901" "6 995374").PN.	US-PGPUB; USPAT	OR	ON	2006/08/21 07:57
L101	0	L100 and (diffus\$4 near oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L102	0	L100 and (diffus\$4 with oxygen)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L103	3	L100 and diffus\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
L104	19	("20020144640" "20040084655" "4 055391" "5164041" "5324488" "548 1114" "5483070" "5540947" "56606 27" "5690731" "6323489" "6462341 " "6624420" "6643538" "6671541" "6 8222237" "6903344" "6921901" "6 995374").PN.	US-PGPUB; USPAT	OR	ON	2006/08/21 07:57

## EAST Search History

L105	6	L100 and oxygen	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/21 07:57
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